

WHAT IS CLAIMED IS:

1. An infrared communication module with a function of transmitting a remote control signal, comprising:
a light-emitting element for infrared communication; and
a light-emitting element for a remote control signal, wherein
5 said light-emitting element for infrared communication and said light-emitting element for the remote control signal are arranged in a region corresponding to a single lens.
2. The infrared communication module with the function of transmitting the remote control signal according to claim 1, wherein a central axis of remote control signal transmission light emitted from said light-emitting element for the remote control signal via said lens and a
5 central axis of infrared communication light emitted from said light-emitting element for infrared communication via said lens are different in direction.
3. The infrared communication module with the function of transmitting the remote control signal according to claim 1, wherein said light-emitting element for the remote control signal is provided on a central axis of said lens and said light-emitting element for infrared
5 communication is provided offset from the central axis of said lens.
4. The infrared communication module with the function of transmitting the remote control signal according to claim 1, wherein said light-emitting element for infrared communication is provided on a central axis of said lens and said light-emitting element for the remote control
5 signal is provided offset from the central axis of said lens.
5. The infrared communication module with the function of transmitting the remote control signal according to claim 4, wherein more than one said light-emitting element for the remote control signal are

arranged in a region corresponding to the single lens.

6. The infrared communication module with the function of transmitting the remote control signal according to claim 5, wherein said light-emitting elements for the remote control signal are provided symmetrically with respect to the central axis of said lens.

7. The infrared communication module with the function of transmitting the remote control signal according to claim 1, wherein said light-emitting element for infrared communication is a light-emitting element for IrDA data communication.

8. A portable device comprising the infrared communication module with the function of transmitting the remote control signal according to claim 1.

5 9. A mobile telephone with a display portion, comprising the infrared communication module with the function of transmitting the remote control signal according to claim 1, wherein at least any one of a central axis of remote control signal transmission light emitted from said light-emitting element for the remote control signal via said lens and a central axis of infrared communication light emitted from said light-emitting element for infrared communication via said lens forms a prescribed inclination angle with a display surface of said display portion.

5 10. The mobile telephone according to claim 9, wherein said inclination angle is an angle allowing one of the central axis of the remote control signal transmission light and the central axis of the infrared communication light forming said inclination angle to be in a substantially front direction with respect to a user and in a substantially horizontal direction when the user holds the mobile telephone in a normal state of using the mobile telephone.

11. The mobile telephone according to claim 10, wherein said inclination angle is at least 10° and less than 90°.

12. A foldable mobile telephone comprising:

a first body having a control portion;

5 a second body having a display portion coupled to said first body such that the second body can be opened and closed relative to said first body, said display portion being inclined to face a user when said second body is in an open position while the user horizontally holds the first body; and

the infrared communication module with the function of transmitting the remote control signal according to claim 1, wherein

10 one of a central axis of remote control signal transmission light emitted from said light-emitting element for the remote control signal via said lens and a central axis of infrared communication light emitted from said light-emitting element for infrared communication via said lens is directed substantially horizontally when the second body is in the open
15 position while the user horizontally holds the first body.